



LOC 0330

#2

OIPE

5/11/01

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/772,598

DATE: 02/12/2001  
 TIME: 16:20:50

Input Set : A:\6315seq.list.app  
 Output Set: N:\CRF3\02122001\I772598.raw

3 <110> APPLICANT: Pharmacia and Upjohn  
 5 <120> TITLE OF INVENTION: Crystallization and Structure Determination of  
 6 Staphylococcus Aureus Had Synthetase  
 8 <130> FILE REFERENCE: 268.63150101  
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/772,598  
 11 <141> CURRENT FILING DATE: 2001-01-30  
 13 <150> PRIOR APPLICATION NUMBER: 60/179,261  
 14 <151> PRIOR FILING DATE: 2000-01-31  
 16 <160> NUMBER OF SEQ ID NOS: 2  
 18 <170> SOFTWARE: PatentIn Ver. 2.1  
 20 <210> SEQ ID NO: 1  
 21 <211> LENGTH: 282  
 22 <212> TYPE: PRT  
 23 <213> ORGANISM: S.aureus  
 25 <400> SEQUENCE: 1  
 26 Met Gly Ser Lys Leu Gln Asp Val Ile Val Gln Glu Met Lys Val Lys  
 27 1 5 10 15  
 29 Lys Arg Ile Asp Ser Ala Glu Glu Ile Met Glu Leu Lys Gln Phe Ile  
 30 20 25 30  
 32 Lys Asn Tyr Val Gln Ser His Ser Phe Ile Lys Ser Leu Val Leu Gly  
 33 35 40 45  
 35 Ile Ser Gly Gly Gln Asp Ser Thr Leu Val Gly Lys Leu Val Gln Met  
 36 50 55 60  
 38 Ser Val Asn Glu Leu Arg Glu Glu Gly Ile Asp Cys Thr Phe Ile Ala  
 39 65 70 75 80  
 41 Val Lys Leu Pro Tyr Gly Val Gln Lys Asp Ala Asp Glu Val Glu Gln  
 42 85 90 95  
 44 Ala Leu Arg Phe Ile Glu Pro Asp Glu Ile Val Thr Val Asn Ile Lys  
 45 100 105 110  
 47 Pro Ala Val Asp Gln Ser Val Gln Ser Leu Lys Glu Ala Gly Ile Val  
 48 115 120 125  
 50 Leu Thr Asp Phe Gln Lys Gly Asn Glu Lys Ala Arg Glu Arg Met Lys  
 51 130 135 140  
 53 Val Gln Phe Ser Ile Ala Ser Asn Arg Gln Gly Ile Val Val Gly Thr  
 54 145 150 155 160  
 56 Asp His Ser Ala Glu Asn Ile Thr Gly Phe Tyr Thr Lys Tyr Gly Asp  
 57 165 170 175  
 59 Gly Ala Ala Asp Ile Ala Pro Ile Phe Gly Leu Asn Lys Arg Gln Gly  
 60 180 185 190  
 62 Arg Gln Leu Ala Tyr Leu Gly Ala Pro Lys Glu Leu Tyr Glu Lys  
 63 195 200 205  
 65 Thr Pro Thr Ala Asp Leu Glu Asp Asp Lys Pro Gln Leu Pro Asp Glu  
 66 210 215 220  
 68 Asp Ala Leu Gly Val Thr Tyr Glu Ala Ile Asp Asn Tyr Leu Glu Gly  
 69 225 230 235 240  
 71 Lys Pro Val Thr Pro Glu Glu Gln Lys Val Ile Glu Asn His Tyr Ile  
 72 245 250 255

ENTERED

RECEIVED  
 FEB 28 2001  
 OIPE/JCAS

## RAW SEQUENCE LISTING

DATE: 02/12/2001

PATENT APPLICATION: US/09/772,598

TIME: 16:20:50

Input Set : A:\6315seq.list.app

Output Set: N:\CRF3\02122001\I772598.raw

```

74 Arg Asn Ala His Lys Arg Glu Leu Ala Tyr Thr Arg Tyr Thr Trp Pro
75          260          265          270
77 Lys Ser Arg Ser His His His His His His
78          275          280
81 <210> SEQ ID NO: 2
82 <211> LENGTH: 271
83 <212> TYPE: PRT
84 <213> ORGANISM: B.subtilis
86 <400> SEQUENCE: 2
87 Ser Met Gln Glu Lys Ile Met Arg Glu Leu His Val Lys Pro Ser Ile
88   1          5          10          15
90 Asp Pro Lys Gln Glu Ile Glu Asp Arg Val Asn Phe Leu Lys Gln Tyr
91          20          25          30
93 Val Lys Lys Thr Gly Ala Lys Gly Phe Val Leu Gly Ile Ser Gly Gly
94          35          40          45
96 Gln Asp Ser Thr Leu Ala Gly Arg Leu Ala Gln Leu Ala Val Glu Ser
97          50          55          60
99 Ile Arg Glu Glu Gly Gly Asp Ala Gln Phe Ile Ala Val Arg Leu Pro
100  65          70          75          80
102 His Gly Thr Gln Gln Asp Glu Asp Asp Ala Gln Leu Ala Leu Lys Phe
103          85          90          95
105 Ile Lys Pro Asp Lys Ser Trp Lys Phe Asp Ile Lys Ser Thr Val Ser
106          100          105          110
108 Ala Phe Ser Asp Gln Tyr Gln Gln Glu Thr Gly Asp Gln Leu Thr Asp
109          115          120          125
111 Phe Asn Lys Gly Asn Val Lys Ala Arg Thr Arg Met Ile Ala Gln Tyr
112          130          135          140
114 Ala Ile Gly Gly Gln Glu Gly Leu Leu Val Leu Gly Thr Asp His Ala
115  145          150          155          160
117 Ala Glu Ala Val Thr Gly Phe Phe Thr Lys Tyr Gly Asp Gly Gly Ala
118          165          170          175
120 Asp Leu Leu Pro Leu Thr Gly Leu Thr Lys Arg Gln Gly Arg Thr Leu
121          180          185          190
123 Leu Lys Glu Leu Gly Ala Pro Glu Arg Leu Tyr Leu Lys Glu Pro Thr
124          195          200          205
126 Ala Asp Leu Leu Asp Glu Lys Pro Gln Gln Ser Asp Glu Thr Glu Leu
127          210          215          220
129 Gly Ile Ser Tyr Asp Glu Ile Asp Asp Tyr Leu Glu Gly Lys Glu Val
130  225          230          235          240
132 Ser Ala Lys Val Ser Glu Ala Leu Glu Lys Arg Tyr Ser Met Thr Glu
133          245          250          255
135 His Lys Arg Gln Val Pro Ala Ser Met Phe Asp Asp Trp Trp Lys
136          260          265          270

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/772,598

DATE: 02/12/2001

TIME: 16:20:51

Input Set : A:\6315seq.list.app

Output Set: N:\CRF3\02122001\I772598.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number